Current NPP Sounder PEATE Processing Capabilities

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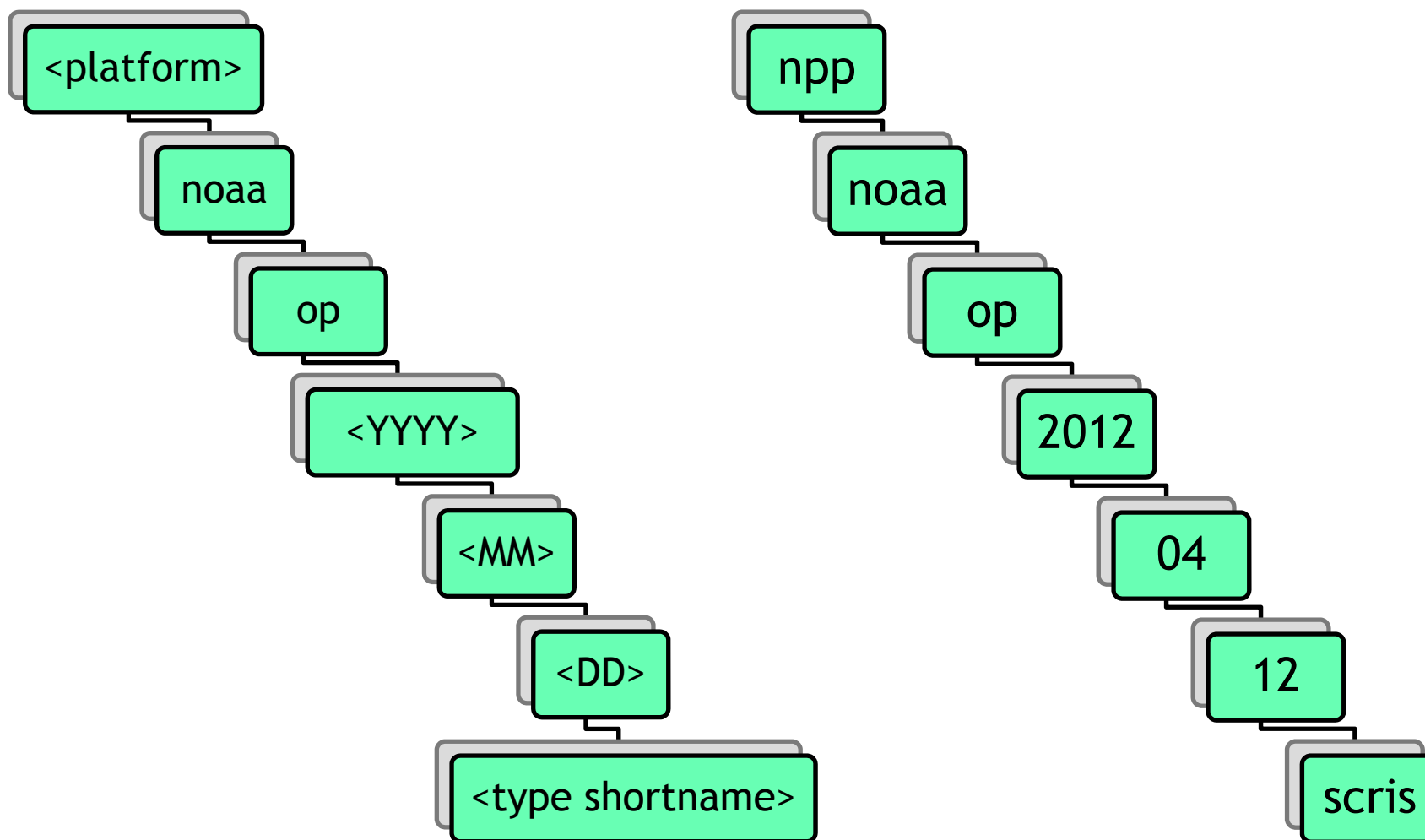Pasadena, California

- **NPP:**

  ATMS CRIS data: all SDRs TDRs EDRs IPs, selected RDRs

- **MetOp-A, MetOp-B (planned):**

  IASI L1C, AMSUA L1B, MHS L1B, MIIRS L2 SND, MIIRS L2 IMG

- **NOAA18 and NOAA19:**

  AMSUA L1B, MHS L1B, MIIRS L2 SND, MIIRS L2 IMG

- **Access to AIRS archive**

- **Access to PrepQC, ECMWF data (via AIRS archive)**

- **Other:**
  - RTG SST, FNMOC NOGAPS, NCEP GFS

Where to find ingested data... e.g. SCRIS

Operations Ingest Data Report

			2012-04-12	2012-04-13	2012-04-14	2012-04-15	2012-04-16	2012-04-17	2012-04-18	2012-04-19
MOA_IASI_L1C	iasa_l1c	480	471*	480	469*	480	480	480	480	480
MOA_AMSUA_L1B	amsua_l1b	16	27*	27*	27*	28*	25*	26*	24*	25*
MOA_MHS_L1B	mhs_l1b	16	27*	27*	27*	28*	25*	26*	24*	25*
NON_AMSUA_L1B	amsua_l1b	16	14*	14*	15*	14*	14*	14*	14*	14*
NON_MHS_L1B	mhs_l1b	16	14*	14*	15*	14*	14*	14*	14*	14*
NOP_AMSUA_L1B	amsua_l1b	16	16**	16**	14*	14*	14*	14*	14*	14*
NOP_MHS_L1B	mhs_l1b	16	16**	16**	14*	14*	14*	14*	14*	14*
RTG_SST_G1			1	1	1	1	1	1	1	1
GFS	gfs	32	32	32	32	32	32	27*	27*	32
NOGAPS	nogaps	32	32	32	32	32	32	24*	16*	32
NPP_SC_DIARY	rnsca	4800	4341*	4341*	4333*	4335*	4349*	4334*	4334*	4430*
NPP_ATMS_RDR_WSCD	ratms_rnsca	180	233*	217*	207*	216*	226**	210*	231*	208**
NPP_ATMS_SDR	satms	180	180	180	180	180	181*	180	180	180
NPP_ATMS_SDR_GEO	gatmo	180	180	180	180	180	181*	180	180	180
NPP_ATMS_TDR	tatms	180	180	180	180	180	181*	180	180	180
NPP_ATMS_RMSDR	satmr	180	236 *	339 *	182*	182*	181*	185*	193*	182*
NPP_ATMS_RMSDR_GEO	gatro	180	236 *	340 *	182*	182*	181*	185*	193*	182*
NPP_ATMS_TRDR	ratmt	180	185*	190*	180	187*	187*	180	180	186*
NPP_CRIS_RDR_WSCD	rcris_rnsca	180	329**	298*	245*	271*	282**	259*	284*	256*
NPP_CRIS_SDR	scris	180	195 *	193 *	180	180	182*	180	180*	180
NPP_CRIS_SDR_GEO	gcrso	180	195 *	193 *	180	180	182*	180	180*	180
NPP_CRIS_TRDR	rcrit	180	191*	182*	180	187*	194**	180	180	186*
NPP_CRIMSS_EDR	redro	180	306 *	422 *	210*	219*	227*	225*	228*	227*
NPP_CRIMSS_EDR_GEO	gcrio	180	306 *	426 *	210*	219*	227*	225*	228*	227*
NPP_CRIMSS_CCR_IP	icccr	2700	2997***	3837***	2746***	2760***	2801***	2763***	2802***	2763***
NPP_CRIMSS_IRSE_IP	icise	2700	2999***	3905***	2746***	2761***	2802***	2763***	2803***	2763***
NPP_CRIMSS_IRMP_IP	icali	2700	2984***	3799***	2745***	2759***	2801***	2762***	2801***	2762***
NPP_CRIMSS_MWMP_IP	icalm	2700	2984***	3862***	2745***	2759***	2802***	2763***	2802***	2762***
NPP_CRIMSS_MWSE_IP	icmse	2700	3000***	3903***	2745***	2762***	2802***	2762***	2802***	2764***
NPP_CRIMSS_ST_IP	icstt	2700	3003***	3889***	2746***	2762***	2804***	2765***	2804***	2763***
NPP_CRIMSS_IRTP_IP	ictli	2700	2984***	3817***	2745***	2760***	2801***	2763***	2802***	2762***
NPP_CRIMSS_MWTP_IP	ictlm	2700	2986***	3834***	2745***	2760***	2801***	2762***	2802***	2763***
NPP_CRIS_O3_IP	iiroo	180	306 *	424 *	210*	219*	227*	225*	228*	227*
NPP_CRIS_IRDR	rcrii	180	146*	146*	144	145*	147*	144	144	149*
NPP_CRIS_MRDR	rcrim	180	146*	146*	144	145*	147*	144	144	149*

- **Color coded glance at recently ingested data**
- **Available at:**
  http://rime/archive/code/html/web/dataBrowser/Current.html

  * Requires VPN access to Sounder PEATE machines

AIRS Science Team Meeting 2012-04-27   M. Starch–Sounder PEATE Processing: 4

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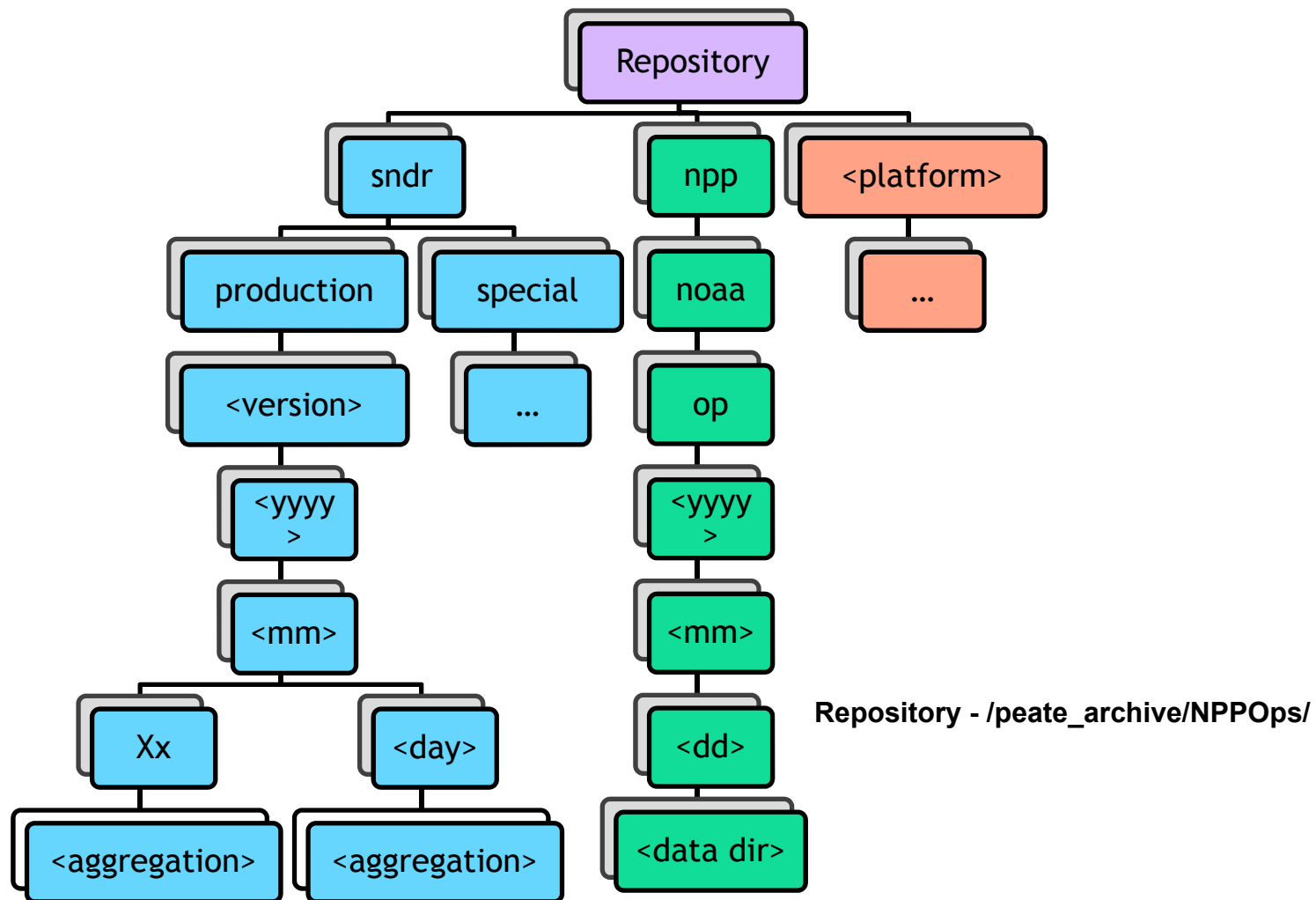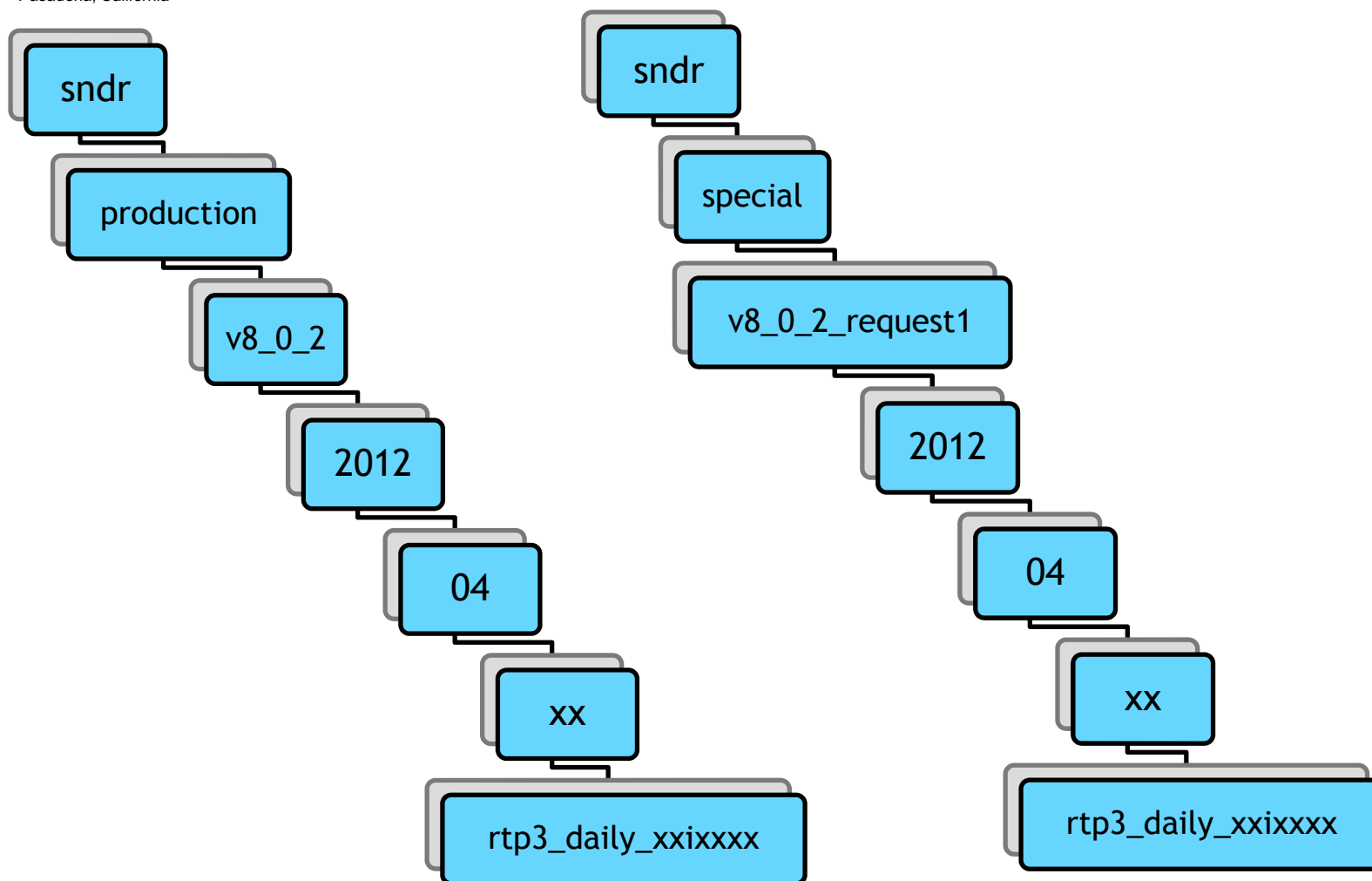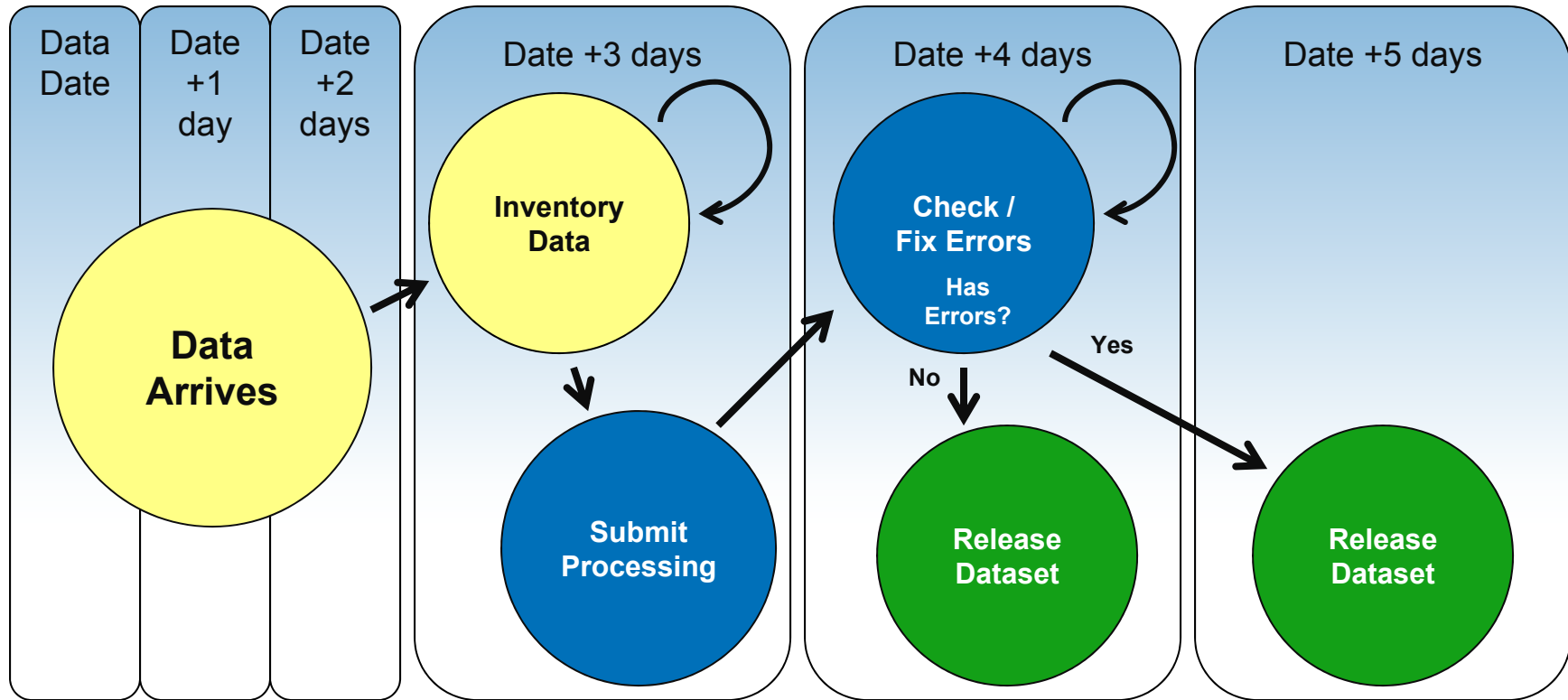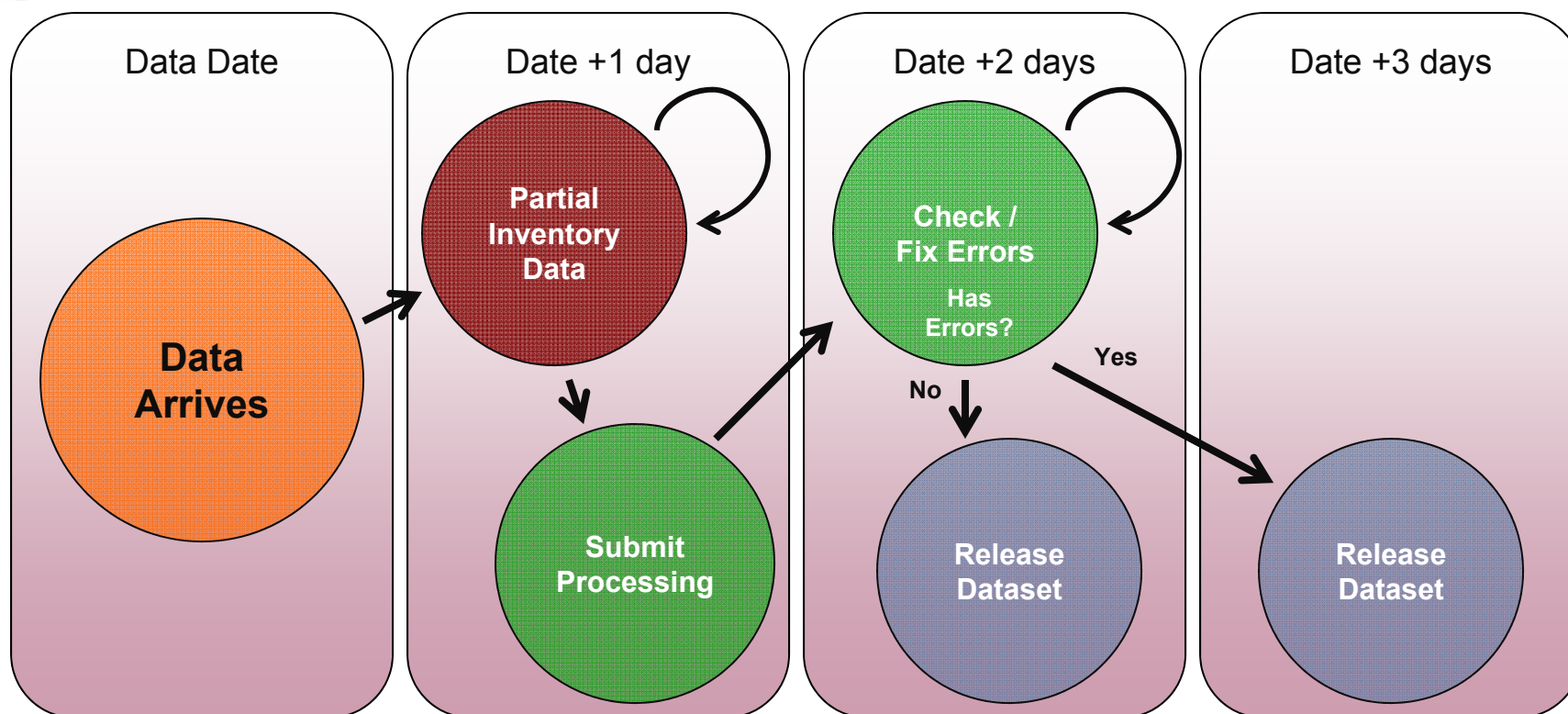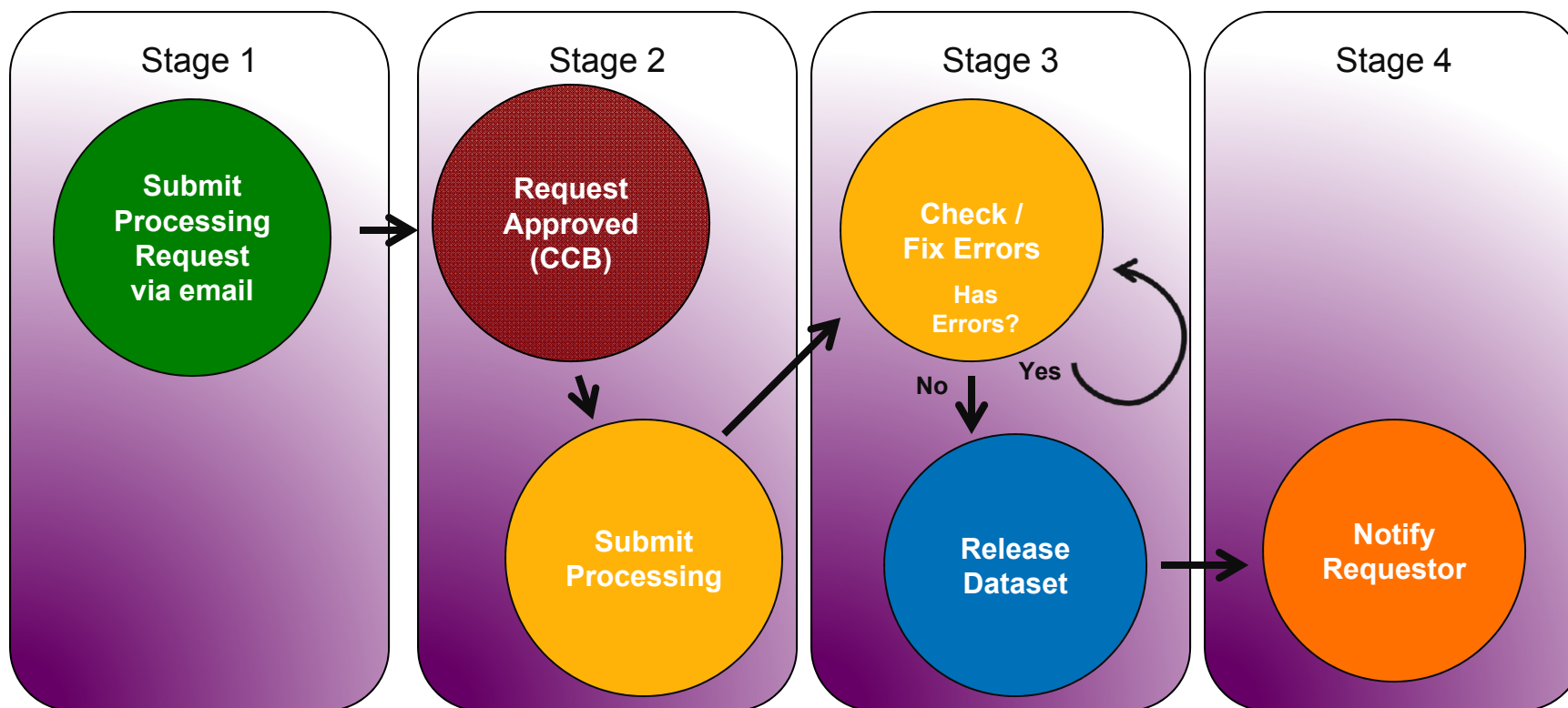Pasadena, California

What We Process

- **Daily products:**
  - MW Simultaneous Nadir Observation (SNOs) for Aqua, MetOp-A, Noaa18, Noaa19, NPP Platforms
    - Numerical Weather Forecast (ECMWF) interpolation on output
  - IR SNOs for Aqua, MetOp-A, NPP Platforms
    - ECMWF interpolation on output
  - Daily Maps: NPP CRIS, MetOp-A IASI, Noaa18 AMSUA, Noaa19 AMSUA
  - MetOp-A IASI Calsub and RaObs
- **Focus day specific products:**
  - Granule based ECMWF interpolation for MetOp-A IASI and NPP CRIS data sets

Where Are Data Products at Sounder PEATE?

Repository - /peate_archive/NPPOps/

Example: SNO 2012-04-12 (Standard, Special)

- SD3E/CLASS have 2 days to stabilize
- Data inventory: All supplier data obtained by PEATE

Fast Response Mode

- SD3E/CLASS have ~8 hours to stabilize
- Inventory is a "best-effort" check against supplier
- Data products are produced 2 days sooner than nominal ops
- No determination on reprocessing of expedited dataset

Processing Requests

- Requests are submitted to Ruth Monarrez via email
- Requests are approved by CCB before processing
- Non-standard production output are put in "special" collection

Data Issues and General Questions

- **Processing Requests: Ruth Monarrez**
- **General Questions/Data Issues: Ruth Monarrez, Michael Starch**
- **Data alerts come from: Michael Starch**
- **Access to Sounder PEATE Data Archive: Steve Friedman**

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Questions?

Processed Data Browser

- **Operations tool, not ready for general release**

- **Used to expedite cleaning of data sets**

Content Mask (Naming Conventions)

ContentMask

- Content mask describes the data that is contained in the file

siimmbb

Calculated observed MW secondary instrument

Calculated observed MW

Calculated observed IR

state